



BSM business systems modernization
a strategy for 21st century logistics

BSM MILS to DLMS Modernization Overview

***Right Item, Right Time, Right Place, Right Price
Every Time ... Best Value Solutions for America's
Warfighter***

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The primary object of this presentation is to provide an overview of BSM's MILS to DLMS modernization.



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BSM Rationale to Move to DLMS

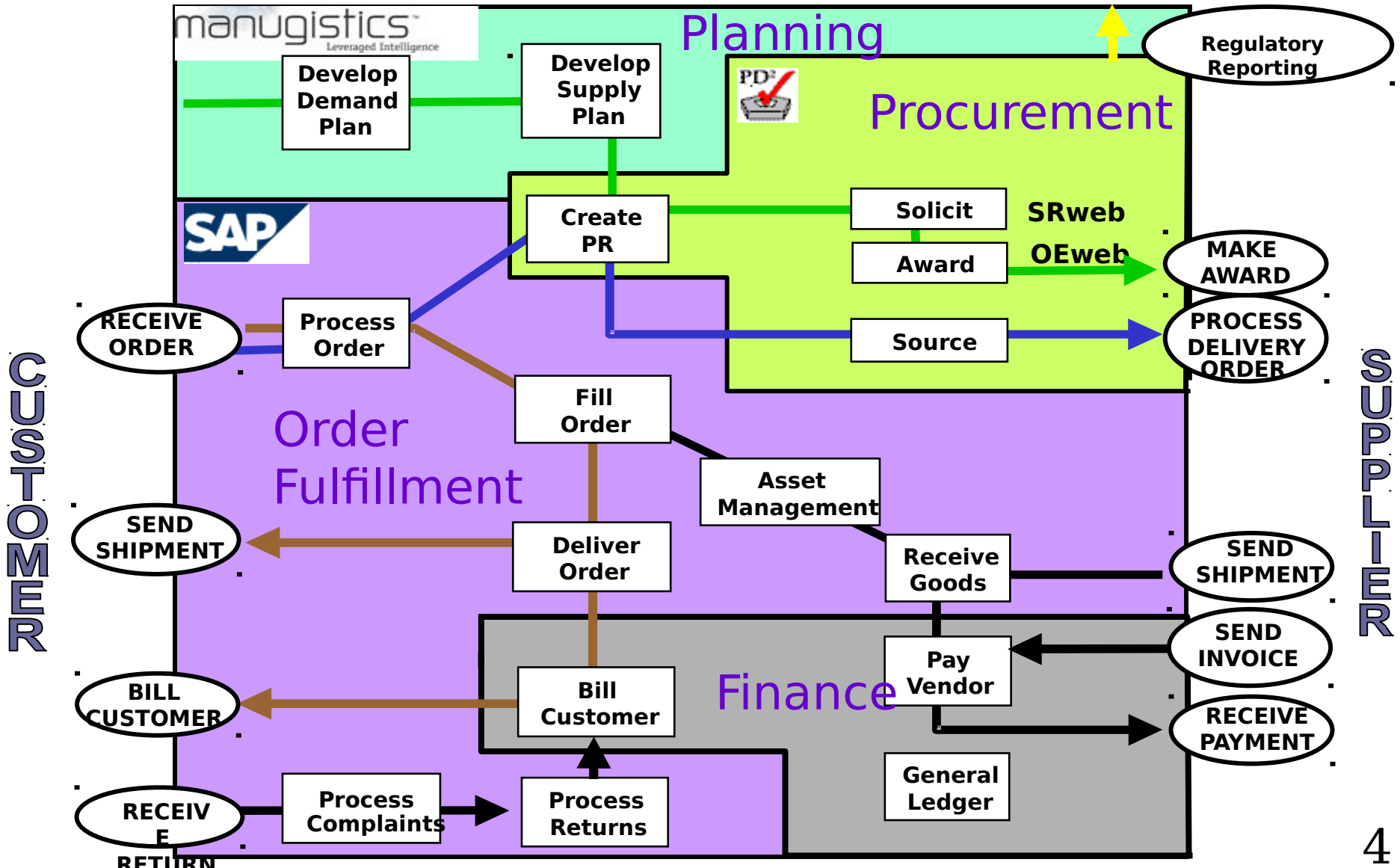
- Compliance with DRID 48
- Design and Build with Commercial/Industry Standards
- Reduce the Number of Interfaces
- Flexibility to Future Requirements
- Utilize COTS Packages Support ANSI X12
- Y2K Compliance
- X12 Supports Interface Parity



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BSM Business Architecture

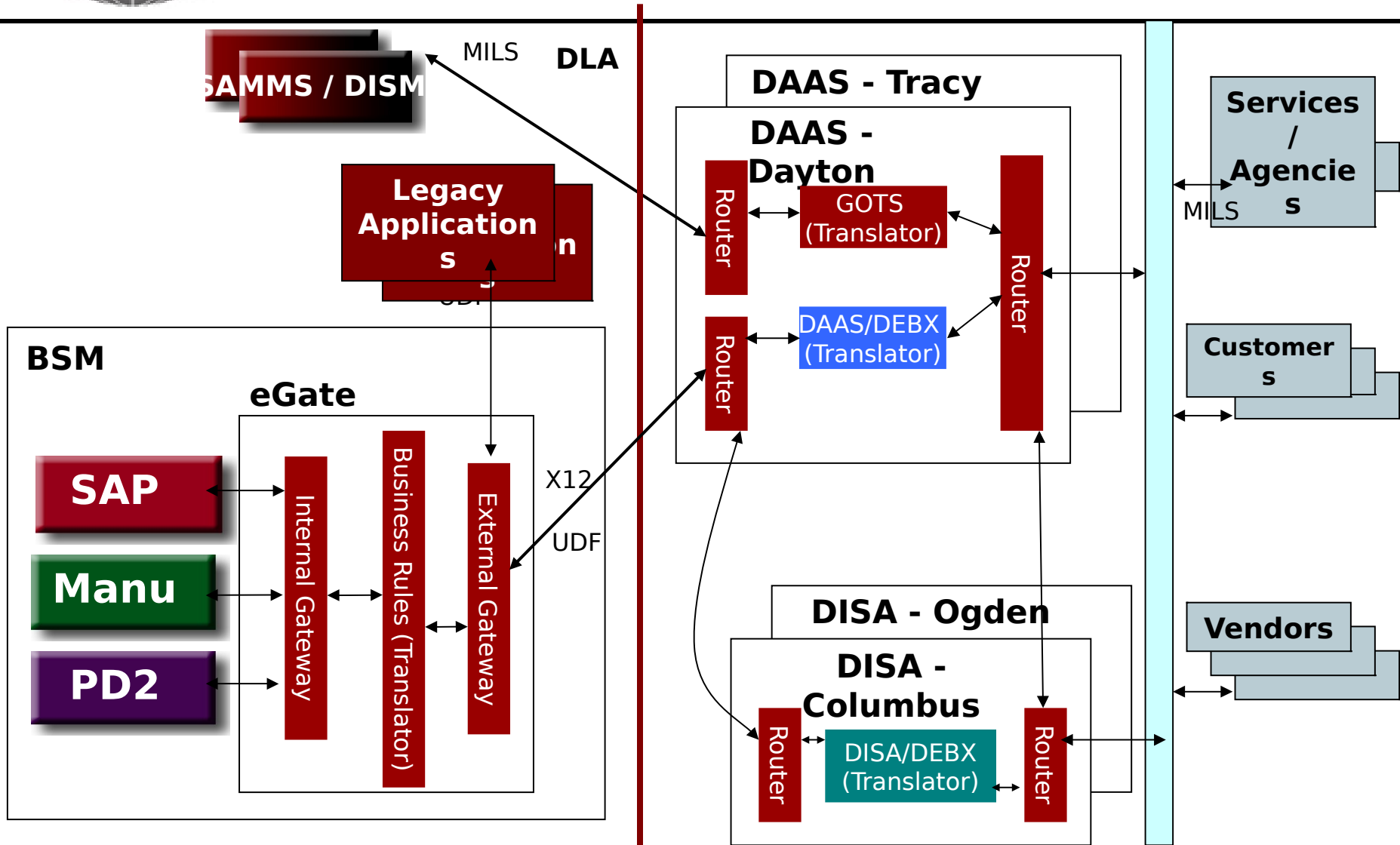
(Concept Demo)





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BSM Interface Architecture (Concept Demo)





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BSM DLMS Approach and Strategy

- BSM Approach:
 - ❖ Identify all MILS transactions and their equivalent DLMS transaction sets
 - ❖ Design architecture to minimize build effort and number of interfaces
 - ❖ Test with DAASC and verify results with DLMSO
 - ❖ Use a standard COTS application to exchange, process, and archive X12 transactions
 - ❖ Use DAASC to connect to all external EDI trading partners



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BSM EDI Requirements

BSM has 59 EDI interfaces

- ❖ Of those 59 interfaces:
 - 53 are based on DLMS transaction sets
 - The remaining six interfaces uses federal implementation conventions to communicate with the vendor community
- ❖ Multiple versions of X12 transactions are used
 - 3010, 3030, 3050, 4010, 4030
 - All DLMS based interfaces use versions 4010 or 4030



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BSM EDI Requirements (DLSS/DLMS)

29 X12 transaction sets are used between BSM and DAASC to exchange BSM DLMS Documents.

- 180M
- 511M
- 511R
- 517M
- 527D
- 527R
- 810L
- 812L
- 824R
- 830R
- 846I
- 846P
- 856P
- 856R
- 856S
- 867D
- 869A
- 869C
- 869F
- 870L
- 870M
- 870S
- 940R
- 945A
- 945R
- 947I
- 997 (No MILS Equivalent)



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BSM EDI Requirements (DLSS/DLMS)

BSM currently sends and receives the data content of 260 MILS Document Identifier Codes via its 53 DLMS interfaces and 28 X12 transactions sets.

■ A01	■ A55	■ AFC	■ ARL	■ D6D	■ DUZ	■ FAS	■ FV1
■ A02	■ A5A	■ AFJ	■ AS1	■ D6E	■ DWB	■ FB1	■ FV2
■ A04	■ A5B	■ AFX	■ AS2	■ D6J	■ DWC	■ FB2	■ GA1
■ A05	■ A5D	■ AFZ	■ AS3	■ D6K	■ DWD	■ FC1	■ GA2
■ A0A	■ A5E	■ AG6	■ AS6	■ D6L	■ DWE	■ FC2	■ GB1
■ A0B	■ A5J	■ AGJ	■ AS8	■ D6M	■ DWJ	■ FD1	■ GB2
■ A0D	■ A61	■ AK1	■ AT1	■ D6N	■ DWK	■ FD2	■ GC1
■ A0E	■ A62	■ AK2	■ AT2	■ D6R	■ DWM	■ FDC	■ GC2
■ A21	■ A64	■ AK6	■ AT4	■ D6T	■ DWN	■ FDE	■ GD1
■ A22	■ A65	■ AKJ	■ AT5	■ D6Z	■ DWU	■ FDF	■ GD2
■ A24	■ A6A	■ AM1	■ ATA	■ D8A	■ DWV	■ FDR	■ GE3
■ A25	■ A6B	■ AM2	■ ATB	■ D8B	■ DWZ	■ FDS	■ GE4
■ A2A	■ A6D	■ AM4	■ ATD	■ D8J	■ DXA	■ FE3	■ GS1
■ A2D	■ A6E	■ AM5	■ ATE	■ D8K	■ DXB	■ FE4	■ GS2
■ A2E	■ A6J	■ AMA	■ AU0	■ D8Z	■ DXC	■ FN1	■ PJJ
■ A31	■ AB1	■ AMB	■ AUA	■ D9A	■ DXD	■ FN2	■ TA1
■ A32	■ AB2	■ AMD	■ AUB	■ D9B	■ DYA	■ FQ1	■ TA3
■ A34	■ AB3	■ AME	■ C01	■ D9G	■ DYB	■ FQ2	■ TA4
■ A35	■ AB8	■ AN1	■ C0A	■ D9H	■ DYC	■ FS1	■ WS1
■ A3A	■ AC1	■ AN2	■ CHA	■ D9J	■ DYD	■ FS1	■ YRZ
■ A3B	■ AC2	■ AN3	■ CH1	■ D9K	■ DYG	■ FS2	
■ A3D	■ AC3	■ AN9	■ CQ1	■ D9Z	■ DYH	■ FS2	
■ A3E	■ AC6	■ AP1	■ CQA	■ DAC	■ DYJ	■ FT6	
■ A41	■ ACJ	■ AP2	■ CD4	■ DHA	■ DYK	■ FTB	
■ A42	■ AE1	■ AP3	■ CD5	■ DJA	■ DYL	■ FTC	
■ A44	■ AE2	■ AP8	■ CLS	■ DJB	■ DYM	■ FTD	
■ A45	■ AE3	■ AP9	■ D4M	■ DKA	■ DZE	■ FTE	
■ A4A	■ AE6	■ APR	■ D4S	■ DRA	■ DZF	■ FTF	
■ A4B	■ AE8	■ APX	■ D4U	■ DRB	■ DZG	■ FTL	
■ A4D	■ AEJ	■ AR0	■ D4V	■ DRF	■ FA1	■ FTM	
■ A4E	■ AF1	■ ARA	■ D4Z	■ DUM	■ FA2	■ FTP	
■ A51	■ AF2	■ ARB	■ D6A	■ DUS	■ FAE	■ FTR	
■ A52	■ AF3	■ ARJ	■ D6B	■ DUU	■ FAF	■ FTT	
■ A54	■ AF6	■ ARK	■ D6C	■ DUV	■ FAR	■ FTZ	



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BSM Success Factors

- Tested BSM and DAASC translation logic
- Tested all 260 MILS transaction sets
- Tested and verified 2691 data sets
- Used production MILS data to test the majority of translations
- Tested transactions in both directions to ensure compliance and to fully test each interface. For example, translated an A01 to a 511R to an A01. Then compared the A01 transactions.
- We allocated enough time to complete testing
- Dedicated resources to testing effort



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Lessons Learned

- Coordinate testing with DAASC and DLMSO
- Use production data to test
- Test early in the build process
- Create interface requirements based on the DLMS X12 transaction set formats not the MILS formats
- Test every MILS DIC
- Test all forms of data variations i.e. OCONUS, CONUS, Navy, and Air Force data
- Test bad transactions
- Implement the 997 Functional Acknowledgement



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BSM DLMS Metrics

Since August 1, 2003, BSM has processed 5,121,583 DLMS transactions.

Inbound

- 2,464,462 Transactions Received
- 0.09% X12 Error Rate

Outbound

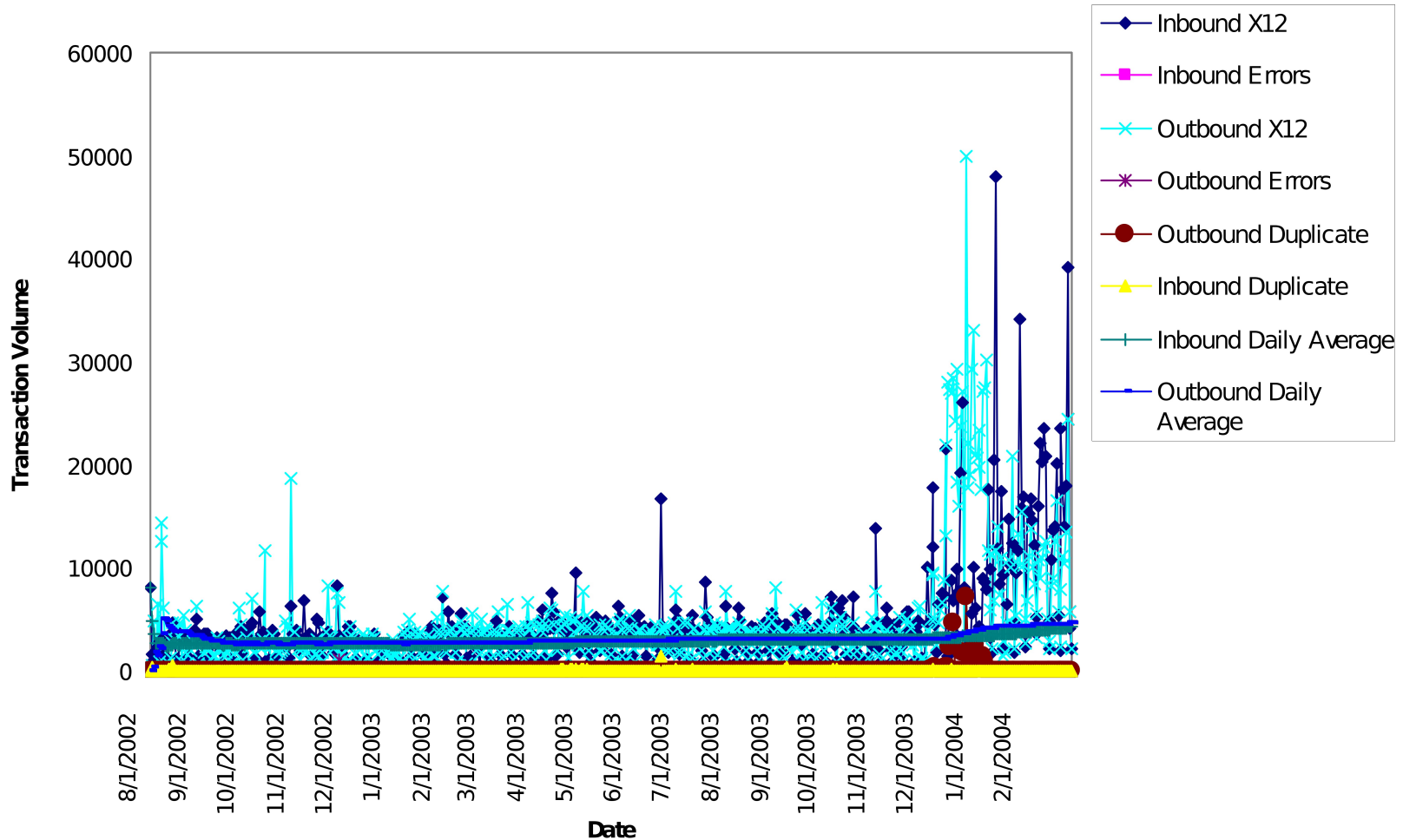
- 2,657,121 Transactions Sent
- 0.34% X12 Error Rate



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BSM EDI Transaction History

Daily EDI Transaction Volume





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Questions

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